Figure 1 a:
Amino acid sequence WT-IL-15-hIgG1:

NWVNVISDLKKTEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESG

DASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMF

INTSDPKSADKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDV

SHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKC

KVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSD

IAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEA

LHNHYTQKSLSLSPGK

(SEQ ID NO: 4)

Figure 1 b:
Amino acid sequence WT-IL-15-mIgG2a:

NWVNVISDLKKTEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESG

DASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMF

INTSDPRGPTIKPCPPCKCPAPNLLGGPSVFIFPPKIKDVLMISLSPIVTCVVVD

VSEDDPDVQISWFVNNVEVHTAQTQTHREDYNSTLRVVSALPIQHQDWMSGKEFK

CKVNNKDLPAPIERTISKPKGSVRAPQVYVLPPPEEEMTKKQVTLTCMVTDFMPE

DIYVEWTNNGKTELNYKNTEPVLDSDGSYFMYSKLRVEKKNWVERNSYSCSVVHE

GLHNHHTTKSFSRTPGK
(SEQ ID NO: 5)

Figure 2 a:
Amino acid sequence WT-IL-15:

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESG

DASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMF

INTS
(SEQ ID NO: 1)

Figure 2 b:
Amino acid sequence hIgG1:

PKSADKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDP

EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK

ALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEW

ESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHY

TQKSLSLSPGK
(SEQ ID NO: 2)

Figure 2 c:
Amino acid sequence mIgG2a:

PRGPTIKPCPPCKCPAPNLLGGPSVFIFPPKIKDVLMISLSPIVTCVVVDVSEDD

PDVQISWFVNNVEVHTAQTQTHREDYNSTLRVVSALPIQHQDWMSGKEFKCKVNN

KDLPAPIERTISKPKGSVRAPQVYVLPPPEEEMTKKQVTLTCMVTDFMPEDIYVE

WTNNGKTELNYKNTEPVLDSDGSYFMYSKLRVEKKNWVERNSYSCSVVHEGLHNH

HTTKSFSRTPGK

(SEQ ID NO: 3)

Figure 3 a:
Amino acid sequence Igk8

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESG

DASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLDSFVHIVDMF

INTSDPRGPTIKPCPPCKCPAPNLLGGPSVFIFPPKIKDVLMISLSPIVTCVVVD

VSEDDPDVQISWFVNNVEVHTAQTQTHREDYNSTLRVVSALPIQHQDWMSGKEFK

CKVNNKDLPAPIERTISKPKGSVRAPQVYVLPPPEEEMTKKQVTLTCMVTDFMPE

DIYVEWTNNGKTELNYKNTEPVLDSDGSYFMYSKLRVEKKNWVERNSYSCSVVHE

GLHNHHTTKSFSRTPGK

(SEQ ID NO: 24)

Figure 3 b:
Amino acid sequence 149-Fc

NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESG

DASIHDTVENLIILANNSLSSNGNVTESGCKECEELEEKNIKEFLDSFVHIVQMF

INTSDPRGPTIKPCPPCKCPAPNLLGGPSVFIFPPKIKDVLMISLSPIVTCVVVD

VSEDDPDVQISWFVNNVEVHTAQTQTHREDYNSTLRVVSALPIQHQDWMSGKEFK

CKVNNKDLPAPIERTISKPKGSVRAPQVYVLPPPEEEMTKKQVTLTCMVTDFMPE

DIYVEWTNNGKTELNYKNTEPVLDSDGSYFMYSKLRVEKKNWVERNSYSCSVVHE

GLHNHHTTKSFSRTPGK

(SEQ ID NO: 25)

Figure 4:
Nucleic acid sequence WT-IL-15-hIgG1:

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AACTGGGTGAATGTAATAAGTGATTTGAAAAAAACCGAAGATCTTATTCAATCTA

TGCATATTGATGCTACTTTATATACGGAAAGTGATGTTCACCCCAGTTGCAAAGT

AACAGCAATGAAGTGCTTTCTCTTGGAGTTACAAGTTATTTCACTTGAGTCCGGA

GATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAACAACAGTT

TGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAGGAACTGGA

GGAAAAAAATATTAAAGAATTTTTGCAGAGTTTTGTACATATTGTCCAAATGTTC

ATCAACACTTCGGATCCCAAATCTGCTGACAAAACTCACACATGCCCACCGTGCC

CAGCACCTGAACTCCTGGGGGGACCGTCAGTCTTCCTCTTCCCCCCAAAACCCAA

GGACACCCTCATGATCTCCCGGACCCCTGAGGTCACGTGCGTGGTGGTGGACGTG

AGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGC

ATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGT

CAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGC

AAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGCCA

AAGGGCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCT

GACCAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGAC

ATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGC

CTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGA

CAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCT

CTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGATCTA

GA
```
(SEQ ID NO: 9)

Figure 5:
Nucleic acid sequence WT-IL-15-mIgG2a:

```
AACTGGGTGAATGTAATAAGTGATTTGAAAAAAATTGAAGATCTTATTCAATCTA

TGCATATTGATGCTACTTTATATACGGAAAGTGATGTTCACCCCAGTTGCAAAGT

AACAGCAATGAAGTGCTTTCTCTTGGAGTTACAAGTTATTTCACTTGAGTCCGGA

GATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAACAACAGTT

TGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAGGAACTGGA

GGAAAAAAATATTAAAGAATTTTTGCAGAGTTTTGTACATATTGTCCAAATGTTC

ATCAACACTTCGGATCCCAGAGGGCCCACAATCAAGCCCTGTCCTCCATGCAAAT

GCCCAGCACCTAACCTCTTGGGTGGACCATCCGTCTTCATCTTCCCTCCAAAGAT

CAAGGATGTACTCATGATCTCCCTGAGCCCCATAGTCACATGTGTGGTGGTGGAT

GTGAGCGAGGATGACCCAGATGTCCAGATCAGCTGGTTTGTGAACAACGTGGAAG

TACACACAGCTCAGACACAAACCCATAGAGAGGATTACAACAGTACTCTCCGGGT

GGTCAGTGCCCTCCCCATCCAGCACCAGGACTGGATGAGTGGCAAGGAGTTCAAA

TGCAAGGTCAACAACAAAGACCTCCCAGCGCCCATCGAGAGAACCATCTCAAAAC

CCAAAGGGTCAGTAAGAGCTCCACAGGTATATGTCTTGCCTCCACCAGAAGAAGA

GATGACTAAGAAACAGGTCACTCTGACCTGCATGGTCACAGACTTCATGCCTGAA

GACATTTACGTGGAGTGGACCAACAACGGGAAAACAGAGCTAAACTACAAGAACA

CTGAACCAGTCCTGGACTCTGATGGTTCTTACTTCATGTACAGCAAGCTGAGAGT

GGAAAAGAAGAACTGGGTGGAAAGAAATAGCTACTCCTGTTCAGTGGTCCACGAG

GGTCTGCACAATCACCACACGACTAAGAGCTTCTCCCGGACTCCGGGTAAATGAG
```

(SEQ ID NO: 10)

Figure 6 a:
Nucleic acid sequence WT-IL-15:

AACTGGGTGAATGTAATAAGTGATTTGAAAAAAATTGAAGATCTTATTCAATCTA

TGCATATTGATGCTACTTTATATACGGAAAGTGATGTTCACCCCAGTTGCAAAGT

AACAGCAATGAAGTGCTTTCTCTTGGAGTTACAAGTTATTTCACTTGAGTCCGGA

GATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAACAACAGTT

TGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAGGAACTGGA

GGAAAAAAATATTAAAGAATTTTTGCAGAGTTTTGTACATATTGTCCAAATGTTC

ATCAACACTTC

(SEQ ID NO: 6)

Figure 6 b:
Nucleic acid sequence hIgG1:

CCCAAATCTGCTGACAAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCC

TGGGGGGACCGTCAGTCTTCCTCTTCCCCCCAAAACCCAAGGACACCCTCATGAT

CTCCCGGACCCCTGAGGTCACGTGCGTGGTGGTGGACGTGAGCCACGAAGACCCT

GAGGTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAA

AGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGTCCTCACCGT

CCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAA

GCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAG

AACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGT

CAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGG

GAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACT

CCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCA

GCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTAC

ACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGAT

(SEQ ID NO: 7)

Figure 7:
Nucleic acid sequence mIgG2a:

CCCAGAGGGCCCACAATCAAGCCCTGTCCTCCATGCAAATGCCCAGCACCTAACC

TCTTGGGTGGACCATCCGTCTTCATCTTCCCTCCAAAGATCAAGGATGTACTCAT

GATCTCCCTGAGCCCCATAGTCACATGTGTGGTGGTGGATGTGAGCGAGGATGAC

CCAGATGTCCAGATCAGCTGGTTTGTGAACAACGTGGAAGTACACACAGCTCAGA

CACAAACCCATAGAGAGGATTACAACAGTACTCTCCGGGTGGTCAGTGCCCTCCC

CATCCAGCACCAGGACTGGATGAGTGGCAAGGAGTTCAAATGCAAGGTCAACAAC

AAAGACCTCCCAGCGCCCATCGAGAGAACCATCTCAAAACCCAAAGGGTCAGTAA

GAGCTCCACAGGTATATGTCTTGCCTCCACCAGAAGAAGAGATGACTAAGAAACA

GGTCACTCTGACCTGCATGGTCACAGACTTCATGCCTGAAGACATTTACGTGGAG

TGGACCAACAACGGGAAAACAGAGCTAAACTACAAGAACACTGAACCAGTCCTGG

ACTCTGATGGTTCTTACTTCATGTACAGCAAGCTGAGAGTGGAAAAGAAGAACTG

GGTGGAAAGAAATAGCTACTCCTGTTCAGTGGTCCACGAGGGTCTGCACAATCAC

CACACGACTAAGAGCTTCTCCCGGACTCCGGGTAAATGAG

(SEQ ID NO: 8)

Figure 8 a:
Nucleic acid sequence of murine IgK leader:

ATGGAGACAGACACACTCCTGCTATGGGTACTGCTGCTCTGGGTTCCAGGTTCCA

CTGGTGAC

(SEQ ID NO: 11)

Figure 8 b:

Nucleic acid sequence of human CD5 leader:

ATGCCCATGGGGTCTCTGCAACCGCTGGCCACCTTGTACCTGCTGGGGATGCTGG

TCGCTTCCTGCCTCGGA

(SEQ ID NO: 12)

Figure 8 c:
Nucleic acid sequence of human CD4 leader:

ATGAACCGGGGAGTCCCTTTTAGGCACTTGCTTCTGGTGCTGCAACTGGCGCTCC

TCCCAGCAGCCACTCAGGGA

(SEQ ID NO: 13)

Figure 8 d:
Nucleic acid sequence of human IL-2 leader:

ATGTACAGGATGCAACTCCTGTCTTGCATTGCACTAAGTCTTGCACTTGTCACAA

ACAGT

(SEQ ID NO: 14)

Figure 9 a:
Nucleic acid sequence of human MCP leader:

ATGAAAGTCTCTGCCGCCCTTCTGTGCCTGCTGCTCATAGCAGCCACCTTCATTC

CCCAAGGGCTCGCT

(SEQ ID NO: 15)

Figure 9 b:
Nucleic acid sequence of the short native human IL-15 leader:

ATGTCTTCATTTTGGGCTGTTTCAGTGCAGGGCTTCCTAA

(SEQ ID NO: 16)

Figure 9 c:
Nucleic acid sequence of the long native human IL-15 leader:

ATGAGAATTTCGAAACCACATTTGAGAAGTATTTCCATCCAGTGCTACTTGTGTT

TACTTCTAAACAGTCATTTTCTAACTGAAGCTGGCATTCATGTCTTCATTTTGGG

CTGTTTCAGTGCAGGGCTTCCTAAAACAGAAGCC

(SEQ ID NO: 17)

Figure 10:
Igk8 nucleic acid sequence

ATGGAGACAGACACACTCCTGCTATGGGTACTGCTGCTCTGGGTTCCAGGTTCCA

CTGGTGACAACTGGGTGAATGTAATAAGTGATTTGAAAAAAATTGAAGATCTTAT

TCAATCTATGCATATTGATGCTACTTTATATACGGAAAGTGATGTTCACCCCAGT

TGCAAAGTAACAGCAATGAAGTGCTTTCTCTTGGAGTTACAAGTTATTTCACTTG

AGTCCGGAGATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAA

CAACAGTTTGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAG

GAACTGGAGGAAAAAATATTAAAGAATTTTTGGACAGTTTTGTACATATTGTCG

ACATGTTCATCAACACTTCGGATCCCAGAGGGCCCACAATCAAGCCCTGTCCTCC

ATGCAAATGCCCAGCACCTAACCTCTTGGGTGGACCATCCGTCTTCATCTTCCCT

CCAAAGATCAAGGATGTACTCATGATCTCCCTGAGCCCCATAGTCACATGTGTGG

TGGTGGATGTGAGCGAGGATGACCCAGATGTCCAGATCAGCTGGTTTGTGAACAA

CGTGGAAGTACACACAGCTCAGACACAAACCCATAGAGAGGATTACAACAGTACT

CTCCGGGTGGTCAGTGCCCTCCCCATCCAGCACCAGGACTGGATGAGTGGCAAGG

AGTTCAAATGCAAGGTCAACAACAAAGACCTCCCAGCGCCCATCGAGAGAACCAT

CTCAAAACCCAAAGGGTCAGTAAGAGCTCCACAGGTATATGTCTTGCCTCCACCA

GAAGAAGAGATGACTAAGAAACAGGTCACTCTGACCTGCATGGTCACAGACTTCA

TGCCTGAAGACATTTACGTGGAGTGGACCAACAACGGGAAACAGAGCTAAACTA

CAAGAACACTGAACCAGTCCTGGACTCTGATGGTTCTTACTTCATGTACAGCAAG

CTGAGAGTGGAAAAGAAGAACTGGGTGGAAAGAAATAGCTACTCCTGTTCAGTGG

TCCACGAGGGTCTGCACAATCACCACACGACTAAGAGCTTCTCCCGGACTCCGGG

TAAATGAG

(SEQ ID NO: 26)

Figure 11:
149-Fc nucleic acid sequence

ATGGAGACAGACACACTCCTGCTATGGGTACTGCTGCTCTGGGTTCCAGGTTCCA

CTGGTGACAACTGGGTGAATGTAATAAGTGATTTGAAAAAAATTGAAGATCTTAT

TCAATCTATGCATATTGATGCTACTTTATATACGGAAAGTGATGTTCACCCCAGT

TGCAAAGTAACAGCAATGAAGTGCTTTCTCTTGGAGTTACAAGTTATTTCACTTG

AGTCCGGAGATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAA

CAACAGTTTGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAG

GAACTGGAGGAAAAAAATATTAAAGAATTTTTGGACAGTTTTGTACATATTGTCC

AAATGTTCATCAACACTTCGGATCCCAGAGGGCCCACAATCAAGCCCTGTCCTCC

ATGCAAATGCCCAGCACCTAACCTCTTGGGTGGACCATCCGTCTTCATCTTCCCT

CCAAAGATCAAGGATGTACTCATGATCTCCCTGAGCCCCATAGTCACATGTGTGG

TGGTGGATGTGAGCGAGGATGACCCAGATGTCCAGATCAGCTGGTTTGTGAACAA

CGTGGAAGTACACACAGCTCAGACACAAACCCATAGAGAGGATTACAACAGTACT

CTCCGGGTGGTCAGTGCCCTCCCCATCCAGCACCAGGACTGGATGAGTGGCAAGG

AGTTCAAATGCAAGGTCAACAACAAAGACCTCCCAGCGCCCATCGAGAGAACCAT

CTCAAAACCCAAAGGGTCAGTAAGAGCTCCACAGGTATATGTCTTGCCTCCACCA

GAAGAAGAGATGACTAAGAAACAGGTCACTCTGACCTGCATGGTCACAGACTTCA

TGCCTGAAGACATTTACGTGGAGTGGACCAACAACGGGAAAACAGAGCTAAACTA

CAAGAACACTGAACCAGTCCTGGACTCTGATGGTTCTTACTTCATGTACAGCAAG

CTGAGAGTGGAAAAGAAGAACTGGGTGGAAAGAAATAGCTACTCCTGTTCAGTGG

TCCACGAGGGTCTGCACAATCACCACACGACTAAGAGCTTCTCCCGGACTCCGGG

TAAATGAG

(SEQ ID NO: 27)